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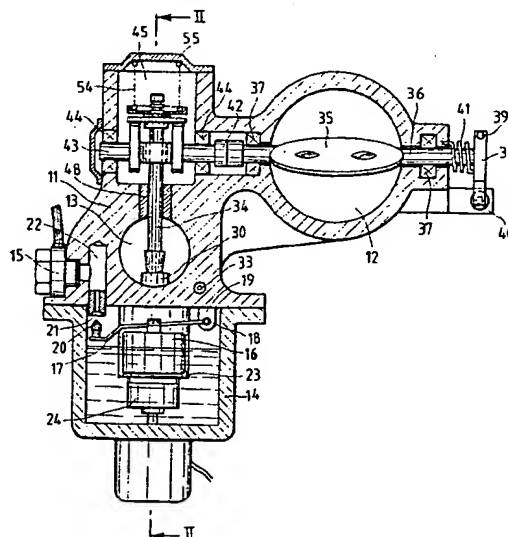
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(54) Mixture preparation device for double-feed engines.

(57) A mixture preparation device for double-feed engines comprising a body (11) in which two ducts are provided, namely a first duct (12) for air feed to the crankcase and a second duct (13) connected to an injection device, throttle elements (10, 35) being provided for the two ducts (12, 13), in the second duct (13) connected to the injection device there being provided an air-fuel mixture emission unit (29-34) adjustable in its degree of opening, the opening being controlled by transmission elements (49, 50) operationally connected to a shaft (36, 43) carrying one of the throttle elements (35) positioned within the first duct (12) for air feed.

Fig.1



EP 0 651 142 A3



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EUROPEAN SEARCH REPORT

Application Number
EP 94 20 2731

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
X	DE-A-15 26 691 (INSTITUT FRANCAIS DU PETROLE) * page 7, paragraph 5 - page 8, paragraph 1; figure 1A * * page 8, paragraph 4 * * page 9, paragraph 3 * * page 10, paragraph 1 - paragraph 2 * * page 13, paragraph 2 - paragraph 3 * * page 15 *	1	F02B25/20 F02M7/14 F02M7/18
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Y	GB-A-2 054 050 (BORG-WARNER) * page 1, line 113 - line 124; figure 1 * * page 2, line 5 - line 28 *	2,5	
X	FR-A-2 431 605 (JAULMES) * page 2, line 35 - line 37 * * page 5, line 13 - line 27; figure 8 *	1	
X	FR-A-2 244 912 (YAMAHA) * page 1, line 20 - line 31 * * page 2, line 25 - line 28 * * page 3, line 6 - line 9 * * page 3, line 26 - page 4, line 20 * * page 6, line 1 - line 2 * * page 6, line 28 - line 33 *	1	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			F02B F02M
A	US-A-3 940 459 (TIPTON) * column 2, line 33 - line 37; figure 1 *	3	
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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 17 July 1995	Examiner Joris, J
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document	

EPO FORM 1503 01.82 (P04C01)



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EUROPEAN SEARCH REPORT

Application Number
EP 94 20 2731

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A	PATENT ABSTRACTS OF JAPAN vol. 8, no. 28 (M-274) (1465) 7 February 1984 & JP-A-58 187 522 (NIHON) 1 November 1983 * abstract *	1	
A	FR-A-2 222 534 (YAMAHA) * page 3, line 22 - line 24; figures 1,6 * * page 3, line 35 - line 38 * * page 4, line 24 - line 27 * * page 4, line 40 - page 5, line 23 * * page 9, line 14 - line 21 *	1	
A	EP-A-0 015 792 (ANVAR) * page 5, line 26 - page 6, line 15 * * page 6, line 33 - page 7, line 3 * * page 8, line 4 - line 13 * * page 4, line 28 - line 36 * * page 9, line 9 - line 15 *	1	
A	DE-A-37 22 424 (BOMBARDIER-ROTAX) ---		
Y	DE-A-15 26 691 (INSTITUT FRANCAIS DU PETROLE) * page 7, paragraph 5 - page 8, paragraph 1; figure 1A * * page 8, paragraph 4 * * page 9, paragraph 3 * * page 10, paragraph 1 - paragraph 2 * * page 13, paragraph 2 - paragraph 3 * * page 15 *	6-10	
Y	US-A-2 856 169 (MUSTAUN) * column 4, line 62 - line 70 * * column 4, line 73 - column 5, line 14; figure 5 * --- -/--	6,7,9	
The present search report has been drawn up for all claims.			
Place of search THE HAGUE		Date of completion of the search 17 July 1995	Examiner Joris, J
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application I : document cited for other reasons & : member of the same patent family, corresponding document			

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EUROPEAN SEARCH REPORT

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Y	GB-A-1 148 584 (VEB BERLINER VERGASER-FABRIK) * page 3, line 28 - line 33; figure 1 *	8	
Y	FR-A-736 403 (THOMAS ET BOIRON) * page 2, line 57 - line 73; figures 1,2 * * page 2, line 85 - line 86 *	10	
A	US-A-2 103 368 (HOOFF) * page 2, left column, line 59 - line 70 * * page 2, right column, line 48 - line 70 * * page 3, right column, line 7 - line 25; figures 4,7 *	6,7,9,10	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 17 July 1995	Examiner Joris, J
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EP 94 20 2731 -B-

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims 1-5:

Mixture preparation device for double-feed engines and an air-fuel mixture emission unit

2. Claims 1,6-10:

Mixture preparation device for double-feed engines and transmission elements between a throttle shaft and the adjustable air-fuel mixture emission unit



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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ All claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claims:
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet -B-

- ☒ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respects of which search fees have been paid, namely claims:
- ☐ None of the further search fees has been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims,

namely claims: